

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P482083

Luminaire Tested: **IFLD-L-SA7C-740-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482083
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

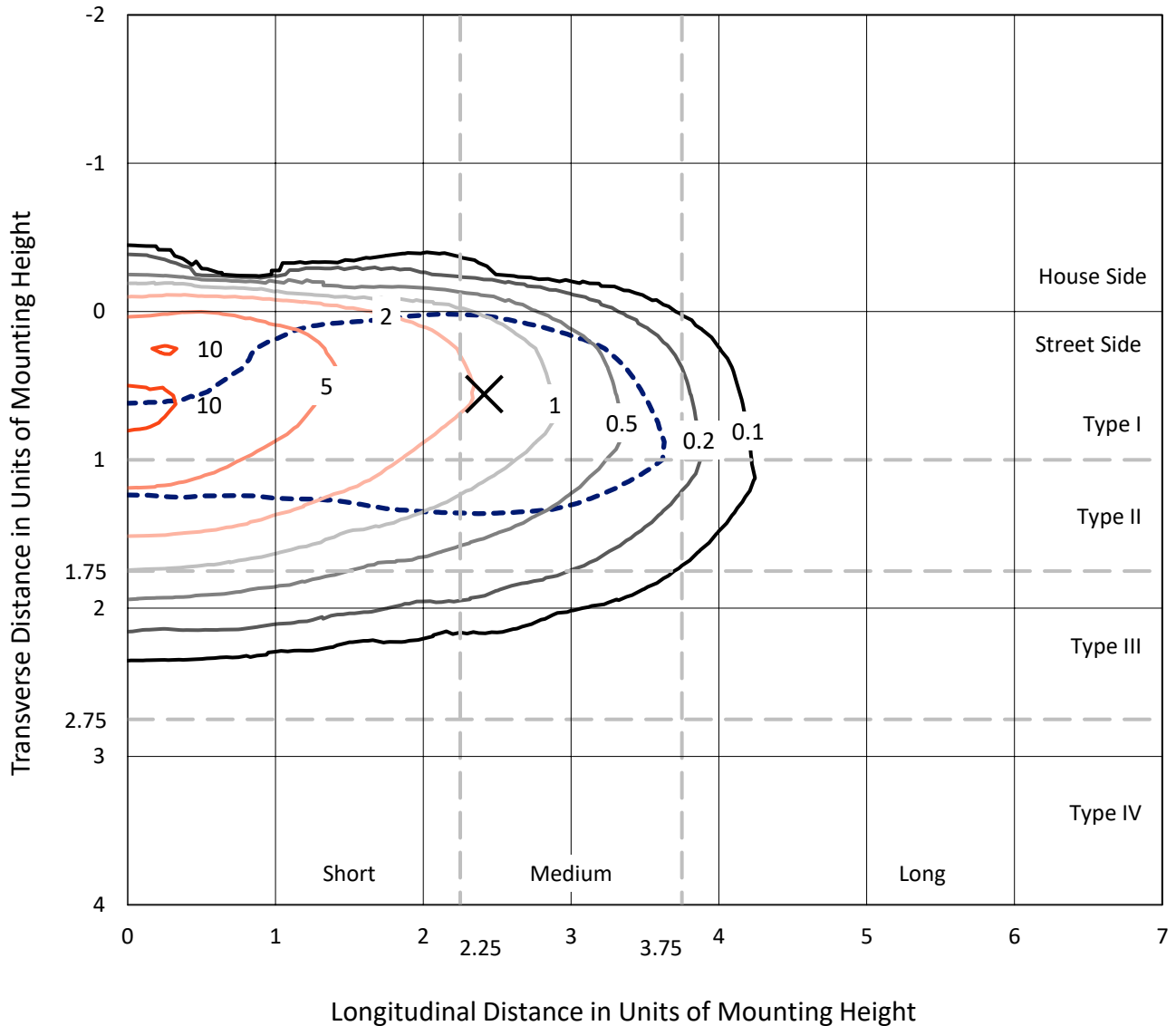
Lumens per Lamp: N/A
Luminaire Lumens: 34853.3 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

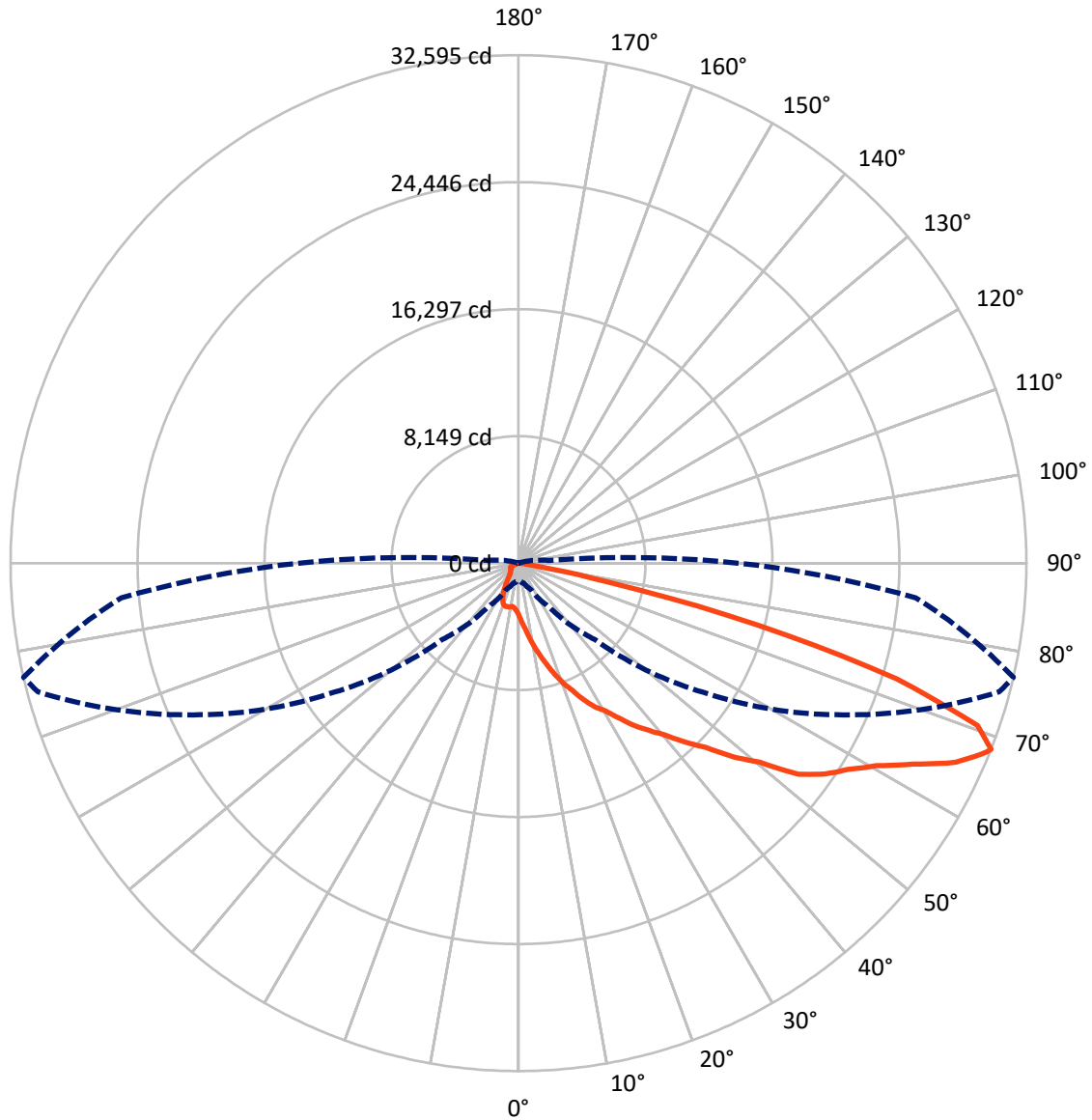
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1580.6	0.0	1580.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	33272.7	0.0	33272.7
	% Fixture	95.5	0.0	95.5
Total	Lumens	34853.3	0.0	34853.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.9	1.1
10°-20°	1437.9	4.1
20°-30°	2786.7	8.0
30°-40°	4858.2	13.9
40°-50°	7115.2	20.4
50°-60°	8359.3	24.0
60°-70°	7058.7	20.3
70°-80°	2736.1	7.9
80°-90°	111.3	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34853.3	100.0
0°-180°	34853.3	100.0

Coefficient of Utilization



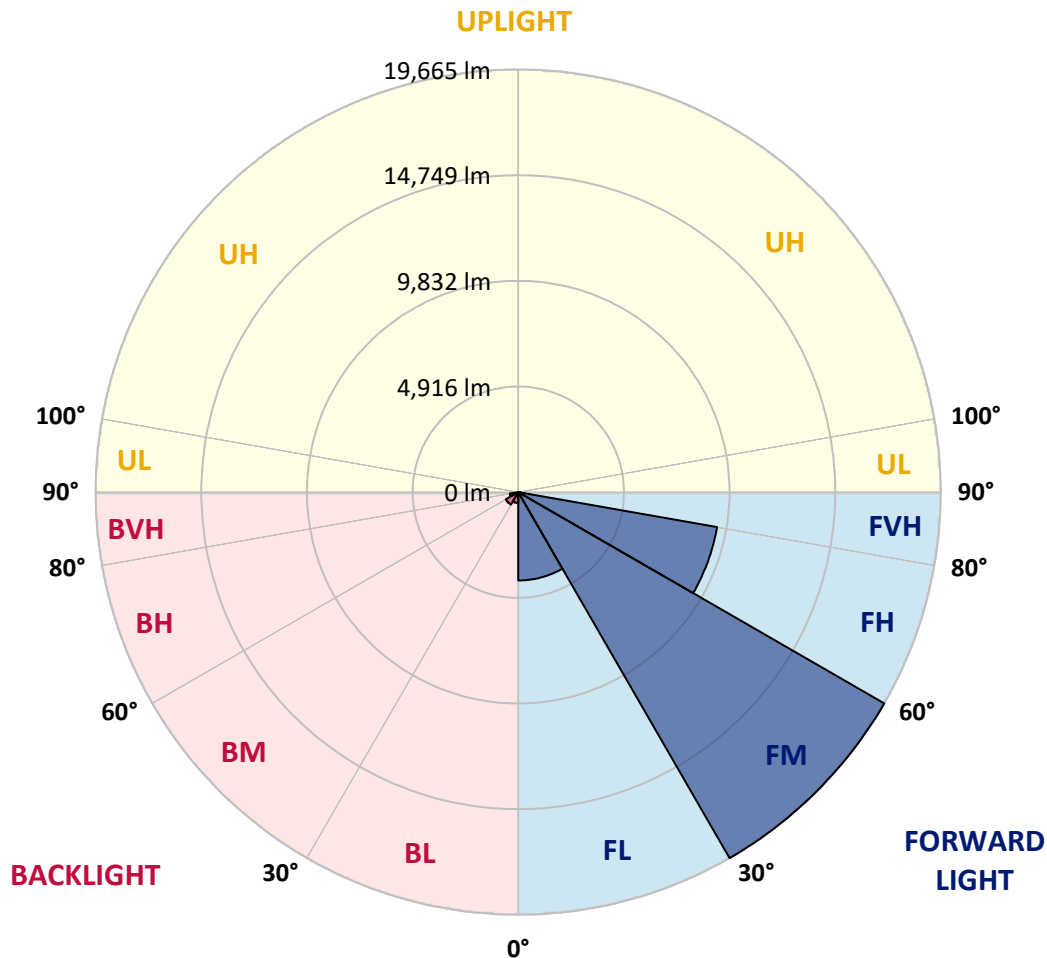
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4109.5	11.8			
FM (30°-60°)	19664.8	56.4			
FH (60°-80°)	9395.7	27.0			G4/12000
FVH (80°-90°)	102.6	0.3			G2/225
BL (0°-30°)	505.0	1.4	B2/1000		
BM (30°-60°)	667.9	1.9	B1/1000		
BH (60°-80°)	399.1	1.1	B1/500		G1/500
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3
2.5°	5070.7	4974.7	4873.8	4845.0	4657.7	4446.5	4249.6	4057.5	3735.8	3740.6	3519.7
5°	6535.3	6415.2	6333.6	6314.4	6021.5	5656.5	5358.8	4816.2	4283.2	4163.2	3759.8
7.5°	7740.5	7702.1	7582.0	7481.2	7265.1	6818.6	6468.0	5690.1	4878.6	4744.2	4052.7
10°	8470.4	8528.0	8580.8	8451.2	8283.1	7961.4	7481.2	6640.9	5555.7	5387.6	4432.1
12.5°	9248.3	9152.2	9185.8	9291.5	9070.6	8998.6	8403.2	7620.5	6348.0	6026.3	4912.2
15°	9449.9	9488.4	9570.0	9877.3	10026.2	9819.7	9305.9	8412.8	7169.1	6722.5	5358.8
17.5°	9584.4	9565.2	9666.0	10127.0	10352.7	10549.6	10227.8	9296.3	7884.6	7486.0	5915.8
20°	9752.5	9646.8	9867.7	10160.6	10684.0	11097.0	11082.6	10184.6	8633.6	8211.1	6468.0
22.5°	10376.7	10295.1	10472.7	10501.5	10866.5	11442.7	11581.9	10909.7	9401.9	8883.3	7063.4
25°	11529.1	11678.0	11466.7	11284.2	11394.7	11774.0	11874.9	11553.1	10175.0	9699.6	7658.9
27.5°	13214.6	13195.3	12777.6	12542.3	12278.2	12230.2	12302.2	12153.4	10784.8	10443.9	8148.7
30°	15024.8	14866.4	14482.2	13915.6	13334.6	12974.5	12873.6	12720.0	11500.3	11005.7	8633.6
32.5°	16465.4	16551.8	16124.4	15385.0	14419.8	13934.8	13449.8	13281.8	12287.8	11850.8	9190.6
35°	17790.7	17675.4	17334.5	16710.3	15845.9	15063.2	14304.6	13944.4	13233.8	12801.6	9805.3
37.5°	18770.2	18914.3	18266.1	17670.6	16811.1	16162.9	15418.6	14631.1	14208.5	13632.3	10554.4
40°	19697.0	19471.3	19034.3	18486.9	17689.8	17195.2	16705.5	15476.2	15245.7	14501.4	11399.5
42.5°	19533.7	19548.1	19308.0	18866.3	18290.1	18006.8	17838.7	16503.8	16186.9	15711.5	12225.4
45°	18866.3	18923.9	19005.5	18789.4	18837.5	18554.2	19005.5	17685.0	17372.9	16868.7	13176.1
47.5°	18131.6	18227.6	18208.4	18602.2	19048.7	19144.8	20273.2	18995.9	18861.5	18583.0	14491.8
50°	16911.9	16950.4	17320.1	18035.6	18645.4	19649.0	21224.0	20426.9	20633.3	20085.9	16057.2
52.5°	14828.0	14967.2	15918.0	16940.8	18170.0	19903.5	21867.4	22554.1	23077.5	22515.6	17560.2
55°	12191.8	12383.8	13320.2	15236.1	17036.8	19519.3	22453.2	23677.7	24738.9	23889.0	18472.5
57.5°	9810.1	9829.3	10669.6	12647.9	15428.2	18765.4	22750.9	24225.1	25651.2	24969.4	19586.5
60°	7476.4	7399.6	8153.5	9867.7	12720.0	16911.9	22006.7	24503.6	26789.2	26395.5	20926.2
62.5°	4811.4	4691.4	5512.5	7183.5	9934.9	13824.4	20518.1	24508.4	28565.9	28417.1	23168.7
65°	2381.7	2300.1	3005.9	4403.3	6876.2	10573.6	18395.7	24417.2	30736.3	30832.4	25353.5
67.5°	1258.1	1286.9	1512.6	2232.8	3966.3	7471.6	15197.7	23346.4	31845.5	32383.3	25881.7
68°	1157.2	1166.8	1344.5	1858.3	3442.9	6929.0	14439.0	23034.2	31932.0	32594.6	25588.8
70°	941.2	955.6	1018.0	1166.8	1863.1	4508.9	11140.2	20383.6	30630.7	31235.7	23163.9
72.5°	749.1	792.3	830.7	893.1	1094.8	2367.3	6929.0	15884.4	25305.5	25372.7	18030.8
75°	571.4	605.0	681.9	734.7	854.7	1301.3	3298.8	9685.2	16604.6	15788.3	10621.6
77.5°	441.8	470.6	504.2	576.2	715.5	878.7	1008.4	4110.3	7053.8	5805.4	3001.1
80°	264.1	283.3	393.7	451.4	624.2	595.4	398.5	1142.8	1430.9	1128.4	547.4
82.5°	153.7	168.1	225.7	345.7	437.0	321.7	235.3	355.3	350.5	307.3	182.5
85°	4.8	9.6	124.8	206.5	153.7	86.4	144.1	148.9	124.8	115.2	81.6
87.5°	0.0	4.8	33.6	28.8	33.6	19.2	28.8	38.4	48.0	43.2	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3	3337.3
2.5°	3370.9	3265.2	3029.9	2852.3	2660.2	2545.0	2429.7	2357.7	2319.3	2295.3	2314.5
5°	3457.3	3236.4	2857.1	2520.9	2300.1	2151.2	2002.4	1925.5	1853.5	1815.1	1839.1
7.5°	3649.4	3318.0	2689.0	2324.1	2064.8	1834.3	1647.0	1498.2	1411.7	1334.9	1349.3
10°	3884.7	3366.1	2693.8	2208.8	1834.3	1469.4	1205.3	1018.0	912.3	845.1	840.3
12.5°	4124.7	3553.3	2713.0	2093.6	1551.0	1104.4	792.3	653.0	590.6	557.0	557.0
15°	4489.7	3721.4	2665.0	1882.3	1176.4	720.3	542.6	494.6	470.6	441.8	446.6
17.5°	4806.6	3990.3	2641.0	1565.4	806.7	518.6	451.4	398.5	374.5	345.7	345.7
20°	5234.0	4158.4	2511.3	1210.1	557.0	432.2	364.9	316.9	278.5	254.5	259.3
22.5°	5622.9	4288.0	2280.9	825.9	427.4	340.9	268.9	220.9	187.3	158.5	163.3
25°	6045.5	4417.7	1944.7	509.0	302.5	211.3	144.1	105.6	72.0	52.8	52.8
27.5°	6348.0	4456.1	1507.8	302.5	182.5	96.0	33.6	4.8	0.0	0.0	0.0
30°	6655.3	4470.5	1042.0	163.3	72.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	7005.8	4465.7	653.0	86.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	7274.7	4384.0	312.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	7682.9	4264.0	96.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8148.7	4047.9	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8566.4	3827.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9041.8	3553.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9877.3	3438.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10967.3	3346.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	11639.6	3078.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11990.1	2799.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12508.7	2665.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13277.0	2674.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14477.4	2809.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15140.1	2674.6	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14578.3	2141.6	91.2	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	14093.3	1968.7	91.2	24.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	11649.2	1282.1	86.4	24.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8484.8	710.7	72.0	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4936.3	355.3	52.8	19.2	9.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1286.9	177.7	43.2	24.0	14.4	4.8	0.0	0.0	0.0	0.0	0.0
80°	254.5	115.2	38.4	28.8	19.2	9.6	0.0	0.0	0.0	0.0	0.0
82.5°	120.0	81.6	38.4	28.8	24.0	14.4	4.8	0.0	0.0	0.0	0.0
85°	62.4	38.4	38.4	28.8	28.8	19.2	9.6	0.0	0.0	0.0	0.0
87.5°	28.8	14.4	14.4	14.4	14.4	9.6	4.8	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)